

CLIPPEDIMAGE= DE004317007A1

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DOCUMENT-IDENTIFIER: DE 4317007 A1

TITLE: Arrangement for guiding a printer carriage in an ink jet printer

PUBN-DATE: November 24, 1994

INVENTOR-INFORMATION:

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HETZER, ULRICH	DE

ASSIGNEE-INFORMATION:

NAME	COUNTRY
INKJET SYSTEMS GMBH CO KG	DE

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APPL-DATE: May 17, 1993

PRIORITY-DATA: DE04317007A (May 17, 1993)

INT-CL_(IPC): B41J011/22; B41J015/08

EUR-CL_(EPC): B41J025/316

ABSTRACT:

The invention relates to an arrangement for guiding a printer carriage (20) in an ink jet printer. Starting from a paper guide (11) which is mounted resiliently on a transporting roller (10) for transporting a recording medium (12), it is proposed to mount the printer carriage (20) near to its centre of gravity (40) at a first and a second guide point (31, 32) so as to be pivotable and displaceable on a guide rod (30). Furthermore, a guide knob (23) is provided, which is mounted as a third guide point (33) on the paper guide (11). It is proposed optionally to provide a fourth guide point (34) which is supported resiliently on a frame (50). Due to the changing material thickness of the recording medium (12) as well as production tolerances and wear, the printer carriage (20) is pivoted about the axis of the guide rod (30) and the distance of the nozzle outlet surface (22) from the surface of the recording medium (12) is thus kept constant. <IMAGE>

DERWENT-ACC-NO: 1995-000438
DERWENT-WEEK: 199501
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TITLE: Ink jet printer carriage transport mechanism - is movable between three guide points, and is shifted towards guide bar near centre of gravity of carriage

INVENTOR: HETZER, U; MEINHOF, A

PATENT-ASSIGNEE: INKJET SYSTEMS GMBH & CO KG[INKJN], EASTMAN KODAK COMBH & CO KG[EAST]

PRIORITY-DATA: 1993DE-4317007 (May 17, 1993)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 4317007 A1	November 24, 1994	N/A	008	B41J 011/22
DE 4317007 C2	November 16, 1995	N/A	007	B41J 011/22

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
DE 4317007A1	N/A	1993DE-4317007	May 17, 1993
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INT-CL_(IPC): B41J011/22; B41J015/08

ABSTRACTED-PUB-NO: DE 4317007A

BASIC-ABSTRACT: The recording carrier is moved back and forth between a transport cylinder and a paper guide roller. The printer carriage (20) includes at least one ink printing head. The carriage can be shifted towards the guide bar (30) near the centre of gravity of the carriage. The carriage is movable between two guide points (31,32).

A third guide point (33) lies on the paper guide roller under all operating conditions. The carriage is L-shaped, with the guide bar (30) forming the short end of the L. The third guide point has a guide knob (23) which glides along the paper guide (11).

ADVANTAGE - Spacing between nozzle surface and recording carrier is constant.

ABSTRACTED-PUB-NO: DE 4317007C

EQUIVALENT-ABSTRACTS: The paper guide element (11) in the shape of the sheet is tightened on one side and has its free end spring-mounted on the plotter-holder on the feed roller (10). The first and second guide bearing (31, 32) are positioned on the printer carriage (20) so that their pivot axles are on the plane determined by the jets' outlet surface (22) on the ink printer pressure head (21).

The printer carriage has a fourth guide bearing exerting torque on the printer carriage by means of a spring arrangement, round the guide bar (30) onto the paper-guide.

ADVANTAGE - Distance between jets' outlet surface and surface of plotter holder, independent of thickness of holder, of tolerances and wear, remains constant and transverse deflections of printer head as result of material thickness are avoided.

CHOSEN-DRAWING: Dwg. 1/5 Dwg. 1a/6

TITLE-TERMS:

**INK JET PRINT CARRIAGE TRANSPORT MECHANISM MOVE THREE GUIDE POINT
SHIFT GUIDE
BAR CENTRE GRAVITY CARRIAGE**

DERWENT-CLASS: P75 T04

EPI-CODES: T04-G02; T04-G06A;

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DEUTSCHES
PATENTAMT

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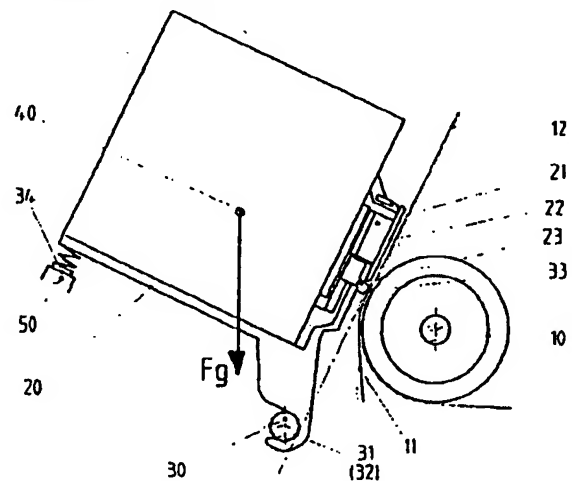
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Prüfungsantrag gem. § 44 PatG ist gestellt

⑤A Anordnung für die Führung eines Druckerwagens in einer Tintendruckeinrichtung

⑤ Die Erfindung betrifft eine Anordnung für die Führung eines Druckerwagens (20) in einer Tintendruckeinrichtung. Ausgehend von einer Papierführung (11), die federnd auf einer Transportwalze (10) zum Transport eines Aufzeichnungsträgers (12) gelagert ist, wird vorgeschlagen, den Druckerwagen (20) in der Nähe seines Schwerpunktes (40) auf einer Führungstange (30) schwenkbar und verschiebbar an einem ersten und einem zweiten Führungspunkt (31, 32) zu lagern. Weiterhin ist ein Führungsnoppen (23) vorgesehen, der als dritter Führungspunkt (33) an der Papierführung (11) gelagert ist. Wahlweise wird vorgeschlagen, einen vierten Führungspunkt (34) vorzusehen, der sich federnd auf einem Rahmen (50) abstützt. Durch wechselnde Materialstärke des Aufzeichnungsträgers (12) sowie Fertigungstoleranzen und Verschleiß wird der Druckerwagen (20) um die Achse der Führungstange (30) verschwenkt und somit der Abstand der Düsenaustrittsfläche (22) zur Oberfläche des Aufzeichnungsträgers (12) konstant gehalten.



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Die folgenden Angaben sind den vom Anmelder eingereichten Unterlagen entnommen

BUNDESDRUCKEREI 09. 94 408 047/299

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